

## Appendix “C”

## **ADVANCED DRAINAGE SYSTEMS, INC. PERMANENT MARKING SYSTEM**

Advanced Drainage Systems, Inc. utilizes the following permanent pipe marking system on the 3" – 60" I.D. single wall and smooth interior corrugated polyethylene pipe to comply with the product identification requirements specified in the industry standards.

The permanent marking is placed on the top of the corrugation at intervals of not more than ten (10) feet. The following production identification information is permanently marked on the pipe: plant, month, day and year of manufacture.

### **Single Wall Corrugated Pipe 3", 4", 5" and 6"**

An embossed metal tape is used to designate the plant and date of manufacture. The metal tape is embossed with raised reverse numbers to designate the plant (number), month (number), day (numbers), and year (number) of manufacture. The metal tape is placed next to the engraved molds, which are located at intervals of not more than ten (10) feet.

Example:

Plant	Month	Day	Year
27 (S)	03 (C)	05	05 (G)

Wooster, March 05, 2005

### **Single Wall Corrugated Pipe 8" and 10" I.D.**

The permanent marking is placed radially on the top of the corrugation of the pipe. The encoder system uses number codes to designate the plant and year of manufacture. The month, date, and shift of manufacture are designated with an analogous dial system. All dials are to be read clockwise using the arrow as the starting point.

#### **Month**

This dial is labeled with a capital "M" to the right of the circle with twelve equally spaced marks. Each mark represents one month of the year. The dot on the dial represents the month of December and each line clockwise of this dot represents the corresponding month from December. The months are to be read clockwise from the dot to the arrow.

For example, if there are five lines from the dot to the arrow, the pipe was produced during the month of May. If the dot and arrow are aligned, the pipe was produced in December.

## **Date**

This dial is labeled with a capital “D” and uses two (2) circles. The first circle has four (4) dots. The largest dot represents zero and the three small dots represent 10, 20, and 30. The zero is used to designate single digit dates and the tenth only. The other three (3) dots are used to designate the first digit on double-digit dates. Always read clockwise from the large dot to the arrow. The number of dots from the large dot to the arrow represents the first digit.

The second circle in the date code is located to the right of the first circle. This circle has ten (10) marks, which consist of one (1) dot and nine (9) lines. It is used to designate all single digit dates, the tenth, and the second digit of all other double-digit dates. Always read clockwise from the large dot to the arrow.

The number of lines represent the digit and the dot represents the number ten. The first line clockwise from the dot represents the number one.

## **Shift**

This dial is labeled with a capital “S” followed by a circle with three (3) dots. Each dot represents a shift. The large dot designates the third shift. The arrow is used to identify the shift of manufacturer. For example, if the large dot is aligned with the arrow, the pipe was made on the third shift.

## **Single Wall Corrugated Pipe 12”, 15”, 18” and 24” I.D.**

The permanent marking is placed radially on top of the corrugation of the pipe. The encoder system uses letter codes to designate the plant and year of manufacture. The month, date and shift of manufacture are designated with an analogous dial system. All dials are to be read clockwise using a central arrow that rotates to indicate the date, month and shift.

## **Month**

This dial is located to the left of the ASTM / AASHTO marking labeled with a Capital “M” to the right of the circle. The circle has twelve equal dots with a center arrow. Each dot represents one month of the year. Locate the starting point by orienting the ASTM / AASHTO so you can read it. Read the dial clockwise with the start point at the top as December. The dot that the arrow is pointing at is the month of manufacturing.

## **Date**

This is a set of two dials with center arrows located to the right of the ASTM / AASHTO marking labeled with a capital “D” to the left of the first dial. The first dial has four dots. These dots represent intervals of 10. With the top dot as 0 and read it clockwise the next dot will be 10 the next 20 and the next 30. The dot with the arrow pointing at it is the first digit in the date. The second dial has 10 dots around the center circle with an arrow in the middle of the center circle. The top dot indicates the number 0. The dot that the arrow is pointing at represents the second digit of the number.

## **Year**

This dial is to the right of the ASTM / AASHTO marking and “YR” is to the left of the dial. The letter in the center of the circle is the year code (reference 112doc for the translation).

## **Plant**

This dial is to the left of the ASTM / AASHTO marking and “P” is to the right of the dial. The letter in the center of the circle is the plant code (reference 112doc for the translation).

## **Shift**

This dial is to the left of the ASTM / AASHTO marking. This is a dial with a center arrow with three equally spaced dots on the outside of the dial with the numbers 1, 2, 3 next to them. The dot with the arrow pointing at it is the shift.

## **Triple Wall Pipe 3”, 4” I.D. ADS 3000 <sup>TM</sup>**

The product and production identification marking is continuously printed on the outer surface of the pipe.

The product identification marking includes the ADS trademark, nominal diameter, UPS bar code (only on 4”), and special specifying/approval agency symbols where applicable.

The production identification code designates the plant, month, date, year, and shift of manufacture.

### **Smooth Interior Corrugated Pipe – 4”, 6”, 8” and 10” I.D.**

An embossed metal tape is used to designate the plant and date of manufacture. The metal tape is embossed with raised reverse numbers to designate the plant (numbers), month (numbers), day (numbers), and year (numbers) of manufacture. The metal tape is placed next to the engraved molds, which are located at intervals of not more than ten (10) feet.

Example:

Plant	Month	Day	Year
27 (S)	03 (C)	05	05 (G)

Wooster, March 05, 2005

### **Smooth Interior Corrugated Pipe – 12”, 15”, 18”, 24” and 30” (Phase 7) I.D.**

The marking system is the same as used on the single 12” to 24” single wall corrugated pipe described previously.

### **Smooth Interior Corrugated Pipe 24” – 30”(Drossbach), 36”- 60” I.D.**

The permanent pin strike marking is placed on the top of the corrugation. The production identification code contains the following information: plant, month, day, year, and shift of manufacture. The plant and date, year, and shift is designated with numbers.

Example:

Plant	Month	Day	Year	Shift
47 (G)	01	01	05	1

Muncy, January 1, 2005

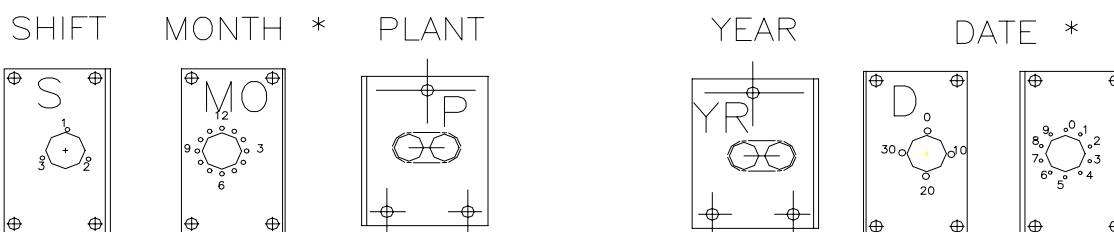
Issued: October 25, 2005  
Supersedes: September 15, 2005  
Quality Manual Index # : 110doc

**ADVANCED DRAINAGE SYSTEMS, INC.**  
**PERMANENT MARKING CODE**

<u><b>Plant code</b></u>		<u><b>Month code</b></u>			<u><b>Year code</b></u>	
Napoleon, OH	26 (A)	January	(A)	1	1986	(K)
Buena Vista, VA	32 (B)	February	(B)	2	1987	(L)
Monterrey, Mexico	11 (C-1)	March	(C)	3	1988	(M)
Los Mochis, Mexico	12 (C-2)	April	(D)	4	1989	(N)
Jilotepec, Mexico	13 (C-3)	May	(E)	5	1990	(O)
New Miami, OH	51 (D)	June	(H)	6	1991	(P)
Eagle Grove, IA	60 (E)	July	(J)	7	1992	(Q)
Fontana, CA	24 (F)	August	(K)	8	1993	(R)
Muncy, PA	47 (G)	September	(L)	9	1994	(S)
Lampa, Chile	15 (I)	October	(M)	10	1995	(T)
Antofagasta, Chile	16 (I-2)	November	(S)	11	1996	(U)
London, OH	64 (J)	December	(T)	12	1997	(W)
Livermore, KY	61 (K)				1998	(X)
Ludlow, MA	36 (L)				1999	(Z)
Mendota IL	46 (M)				2000	(A)
Ennis, TX	42 (N)				2001	(B)
Owosso, MI	30 (O)				2002	(C)
Madera, CA	25 (P)				2003	(D)
Jackson, MS	55 ( R )				2004	(E)
Wooster, OH	27 (S)				2005	(G) 05
Salt Lake, UT	69 (T)				2006	(H) 06
Costa Rica	(V)					
Guatemala	(Q)					
Washougal, WA	33 (W)					
Charlotte, NC	53 (X)					
Winter Garden, FL	67 (Y)					
Perry, GA	35 (Z)					

Issued: October 25, 2005  
 Supersedes: June 15, 2005  
 Quality Manual Index # : 111.xls

**ADVANCED DRAINAGE SYSTEMS INC**  
**PRODUCT IDENTIFICATION ENCODER**  
**12", 15", 18", 24", & 30" (PHASE 7) N-12 PIPE**



ACTUAL ENCODING ON PIPE MAY NOT INCLUDE NUMBERS

<u>PLANT CODE</u>		<u>MONTH CODE</u>		<u>YEAR CODE</u>	
NAPOLEON, OH	26 (A)	JANUARY (A)	1	1994 (S)	
BUENA VISTA, VA	32 (B)	FEBRUARY (B)	2	1995 (T)	
MONTERREY, MEXICO	11 (C-1)	MARCH (C)	3	1996 (U)	
LOS MOCHIS, MEXICO	12 (C-2)	APRIL (D)	4	1997 (W)	
JILOTEPEC, MEXICO	13 (C-3)	MAY (E)	5	1998 (X)	
NEW MIAMI, OH,	51 (D)	JUNE (H)	6	1999 (Z)	
EAGLE GROVE, IA	60 (E)	JULY (J)	7	2000 (A)	
FONTANA, CA	24 (F)	AUGUST (K)	8	2001 (B)	
MUNCY, PA	47 (G)	SEPTEMBER (L)	9	2002 (C)	
LAMPA, CHILE	15 (I)	OCTOBER (M)	10	2003 (D)	
ANTOFAGASTA, CHILE	16 (I-2)	NOVEMBER (S)	11	2004 (E)	
LONDON, OH	64 (J)	DECEMBER (T)	12	2005 (G)	05
LIVERMORE, KY	61 (K)			2006 (H)	06
LUDLOW, MA	36 (L)				
MENDOTA, IL	46 (M)				
ENNIS, TX	42 (N)				
OWOSSO, MI	30 (O)				
MADERA, CA	25 (P)				
JACKSON, MS	55 (R)				
WOOSTER, OH	27 (S)				
SALT LAKE, UT	69 (T)				
COSTA RICA	(V)				
GUATEMALA	(Q)				
WASHOUGAL, WA	33 (W)				
CHARLOTTE, NC	53 (X)				
WINTER GARDEN, FL	67 (Y)				
PERRY, GA	35 (Z)				

ISSUED: 10-25-05  
 SUPERCEDES: 06-15-05  
 DATE: 10-04-95  
 DRAWN BY: CAD DEPT  
 DESIGN BY: T.M.

Quality Manual Index # 112doc